SPECIFICATIONS FOR CONCRETE WORK
SALINA, KANSAS
(REVISED NOVEMBER - 2002)

DRIVEWAY APPROACHES

CONCRETE

Cement Content	-	6.5 sacks / cubic yard
Water, maximum	-	5.8 gallons / sack
Aggregate	-	27% crushed rock – 73% sand
Strength, minimum	-	4,000 p.s.i. in 28 days
Thickness	-	6 inches
Finish	-	Broom finish
Curing time	-	7 days
Reinforcing	-	6" x 6" – 10/10 welded steel fabric wire

All driveway approach construction shall be subject to City inspection at all times by the City Engineer or his representative.

Before depositing concrete, the subgrade shall be thoroughly moistened. Concrete may not be deposited on frozen or muddy subgrade or when the ambient temperature is 40° F. or less without adequate frost protection. Concrete shall then be deposited between the forms in its full course and in one continuous operation. It shall then be thoroughly consolidated between the forms by means of vibrating screeds or, internal vibrators, after which it shall be struck off and given an approved finish. All edges and expansion joints shall be edged with an edging tool. The use of a "Jitterbug or similar device shall be prohibited.

Preformed expansion joint material, one-half inch thickness, shall be placed wherever new work joins existing work; at the ends of all driveway, alley, and street returns where returns meet existing construction; and at intervals of not to exceed fifty (50) feet for all "straight runs." Expansion joint material shall be placed prior to placing of concrete and shall not protrude above finished grade.

The driveway approach shall be protected from premature drying for a period of at least seven (7) days by means of damp mats, burlap or use of an approved white (water or oil based) curing compound.

The Contractor shall notify the City Engineering office at least four (4) hours prior to placing any concrete for a driveway approach.

Not more than two (2) driveway approaches for a single tract shall be constructed on an arterial street.

On arterial, collector, residential streets where "No Parking" is marked, less than 22' (may be allowed) between driveway ends of returns for residential homes upon the approval of the Engineer.

SPECIFICATIONS FOR CONCRETE WORK
SALINA, KANSAS
(REVISED NOVEMBER - 2002)

No driveway serving a commercial or industrial tract shall be permitted which necessitates backing of a vehicle onto the street.

Driveways shall be constructed at right angles to the street.

When circumstances are encountered which make the strict application of the City of Salina's driveway standards/specifications impractical or impossible, the City Engineer will consider alternate proposals submitted by the owner/developer of a tract.

SPECIFICATIONS FOR CONCRETE WORK
SALINA, KANSAS
(REVISED NOVEMBER - 2002)

SIDEWALKS

CONCRETE

Cement Content	-	6.5 sacks / cubic yard
Water, maximum	-	5.8 gallons / sack
Aggregate	-	27% crushed rock – 73% sand
Strength, minimum	-	4,000 p.s.i. in 28 days
Thickness	-	4 inches (6 inches through drive)
Finish	-	Broom finish
Curing time	-	3 days for pedestrian traffic 7 days for vehicular traffic
Reinforcing	-	6" x 6" – 10/10 welded steel fabric wire (through driveway section only)

All sidewalk construction shall be subject to City inspection at all times by the City Engineer or his representative.

All sidewalks shall be four (4) inches in thickness except through driveways where the thickness shall be increased to six (6) inches. All sidewalk sections that are six (6) inches in thickness, shall be reinforced with wire welded fabric. The wire shall be No. 10 wire in a size six (6) by six-(6) inch pattern weighing 58 pounds per hundred (100) square feet. The sidewalk sections shall slope toward the top of the curb at a rate not to exceed one-quarter (1/4) inch per foot.

Before depositing concrete, the subgrade shall be thoroughly moistened. Concrete may not be deposited on frozen or muddy subgrade or when the ambient temperature is 40° F. or less without adequate frost protection. Concrete shall then be deposited between the forms in its full course and in one continuous operation. It shall then be thoroughly consolidated between the forms by means of vibrating screeds, internal vibrators, after which it shall be struck off and given an approved finish. All edges and expansion joints shall be edged with an edging tool. The use of a "Jitterbug" or similar device shall be prohibited.

Expansion joints one-half (1/2) inch in thickness shall be placed at each side of each driveway, at distances not to exceed fifty (50) feet, where new work joins old sidewalk, or other rigid structures of any kind.

No sidewalk may be removed from any property without being replaced by new sidewalk.

The width of proposed sidewalk shall match the existing sidewalk (4' or 5') width located within the block.

Any sidewalk that abuts and is parallel with a driveway approach must be constructed with a curb or other barrier to effectively separate the sidewalk from the driveway approach.

SPECIFICATIONS FOR CONCRETE WORK
SALINA, KANSAS
(REVISED NOVEMBER - 2002)

CURB & GUTTER

CONCRETE

Cement Content	-	6.5 sacks / cubic yard
Water, maximum	-	5.8 gallons / sack
Aggregate	-	27% crushed rock – 73% sand
Strength, minimum	-	4,000 p.s.i. in 28 days
Thickness	-	6 inches
Finish	-	Broom finish
Curing time	-	7 days

All curb and gutter construction shall be subject to City inspection at all times by the City Engineer or his representative.

Before depositing concrete, the subgrade shall be thoroughly moistened. Concrete may not be deposited on frozen or muddy subgrade or when the ambient temperature is 40° F. or less without adequate frost protection. Concrete shall then be deposited between the forms in its full course and in one continuous operation. It shall then be thoroughly consolidated between the forms by means of vibrating screeds, internal vibrators, after which it shall be struck off and given an approved finish. All edges and expansion joints shall be edged with an edging tool. The use of a "Jitterbug" or similar device shall be prohibited.

Preformed expansion joint material, one inch thickness, shall be placed wherever new work joins existing work, at the ends of all driveway, alley, and street returns where returns meet existing construction, and at intervals not to exceed one hundred and fifty (150) feet for all "straight runs." Expansion joint material shall be placed prior to placing of concrete and shall not protrude above finished grade. Unless directed by the Engineer all control joints shall be a five (5) feet.

The curb and gutter shall be protected from premature drying for a period of at least seven (7) days by means of damp mats or burlap, or use of an approved white (water or oil based) curing compound.

The Contractor shall notify the City Engineering office at least four (4) hours prior to placing any concrete for curb and gutter.

All curb and gutter work located on public right-of-way at street intersections, driveways, etc. adjacent to a public sidewalk shall be constructed to provide an accessible route for the physically handicapped.

Along asphaltic pavement the existing toe shall be saw cut prior to removal to provide a clean match for new concrete work.

SPECIFICATIONS FOR CONCRETE WORK
SALINA, KANSAS
(REVISED NOVEMBER - 2002)

Control joints shall be formed at intervals not to exceed five (5) feet. Cutting entirely through the fresh concrete shall form the control joints (with a trowel after the initial set). All control, construction and expansion joints shall be rounded with an edging tool.

The sidewalk shall be protected from premature drying for a period of at least three (3) days (pedestrian traffic) and at least seven (7) days (vehicular traffic) by means of damp mats or burlap, or use of an approved white (water or oil based) curing compound.

The Contractor shall notify the City Engineering office at least four (4) hours prior to placing any concrete for sidewalks.

All sidewalk construction located on public right-of-way shall be accessible to the physically handicapped and shall be in compliance with the American Disability Act.

SPECIFICATIONS FOR CONCRETE WORK
SALINA, KANSAS
(REVISED NOVEMBER - 2002)

STREET REPAIRS

CONCRETE

Cement Content	-	6.5 sacks / cubic yard
Water, maximum	-	5.8 gallons / sack
Aggregate	-	27% crushed rock – 73% sand
Strength, minimum	-	4,000 p.s.i. in 28 days
Thickness	-	6 inches
Finish	-	Float, if topped with asphalt Broom, if surface is flush
Curing time	-	7 days
Reinforcing	-	#4 re-bars, 12" center to center, both ways

All street repair construction shall be subject to City inspection at all times by the City Engineer or his representative. The City Engineer shall determine the minimum dimensions of the street repair.

All street repairs shall be thoroughly consolidated by means of internal vibrators. For repair of concrete pavement, the repair shall be the same thickness as the existing pavement (min. six (6) inches). For repair of asphalt street surface, the concrete shall be placed two (2) inches below the top of the existing pavement. The top two (2) inches shall then be covered with a compacted hot asphaltic concrete rolled to form a smooth surface. Concrete shall not be placed at ambient temperature of 40° F. or less without adequate frost protection.

The Contractor shall notify the City Engineering office at least four (4) hours prior to placing any concrete for street repairs.

SPECIFICATIONS FOR CONCRETE WORK
SALINA, KANSAS
(REVISED NOVEMBER - 2002)

GENERAL NOTES

Prior to placement of new concrete (sidewalk, curb & gutter, concrete pavement), a clean straight joint between the new & existing construction shall be provided.

Concrete Classes – any of the following mixes may be used on City Right-of-Way:

Concrete Class	Minimum 28-Day Strength (PSI)		Minimum Cement Factor 94 lb. Bags/C.Y.	Air Entrainment	Maximum W/C Ratio Gal./Bag	Rock Content	Slump (in.)
	Compressive	Flexural					
Class I	4000	550	6.5	5 - 8%	5.5	27%	1 to 3
Class II	4000	550	6.0	5 - 8%	6.0	40%	1 to 3
Class III	5000	600	8.0	5 - 8%	4.5	30%	1 to 3

Cold weather protection - When ambient temperature is anticipated to drop below 40° F. within the first seven (7) days of placement of the concrete, the contractor will protect with insulated blankets.

When concrete is authorized during cold weather, the Engineer may require that the aggregate and/or water be heated prior to mixing the concrete. Either steam or dry heat may be utilized to heat aggregates but no gas or oil flame or on sheet metal over fire.

The temperature of the mixed concrete shall be not less than 50 degrees F. and not more than 90 degrees F. at the time of placement in the forms.

SPECIFICATIONS FOR CONCRETE WORK
SALINA, KANSAS
(REVISED FEBRUARY - 2005)

Questions and Answers

Can I do my own work in the street right-of-way and do I need a permit? If you wish to place your own drive, sidewalk or curb and gutter in the City right-of-way, you must obtain a contractor or tradesman registration through the City Clerk's Office. A permit for each project will be required (at a price of $5.00) through the Public Works Department, Engineering Division. Once you have set your forms for placement of concrete, you need to call the Engineering Division for an inspection at least four (4) hours before placement. After your work is approved, you will be able to place and cure your concrete.

Can I roll cure on my freshly placed concrete? Rolling or spraying of white pigmented cure is acceptable.

Where is my sidewalk located on my property? If the sidewalk is a property line sidewalk, it should be located in the street right of way. The backside of the sidewalk should be located approximately one (1') inside the street right-of-way. If you live on a street with a 33' street (back to back) and have a road right-of-way of 60', the property line will be approx. 13' – 6" from the back of curb, the backside of the sidewalk will set approx. at 12' - 6".

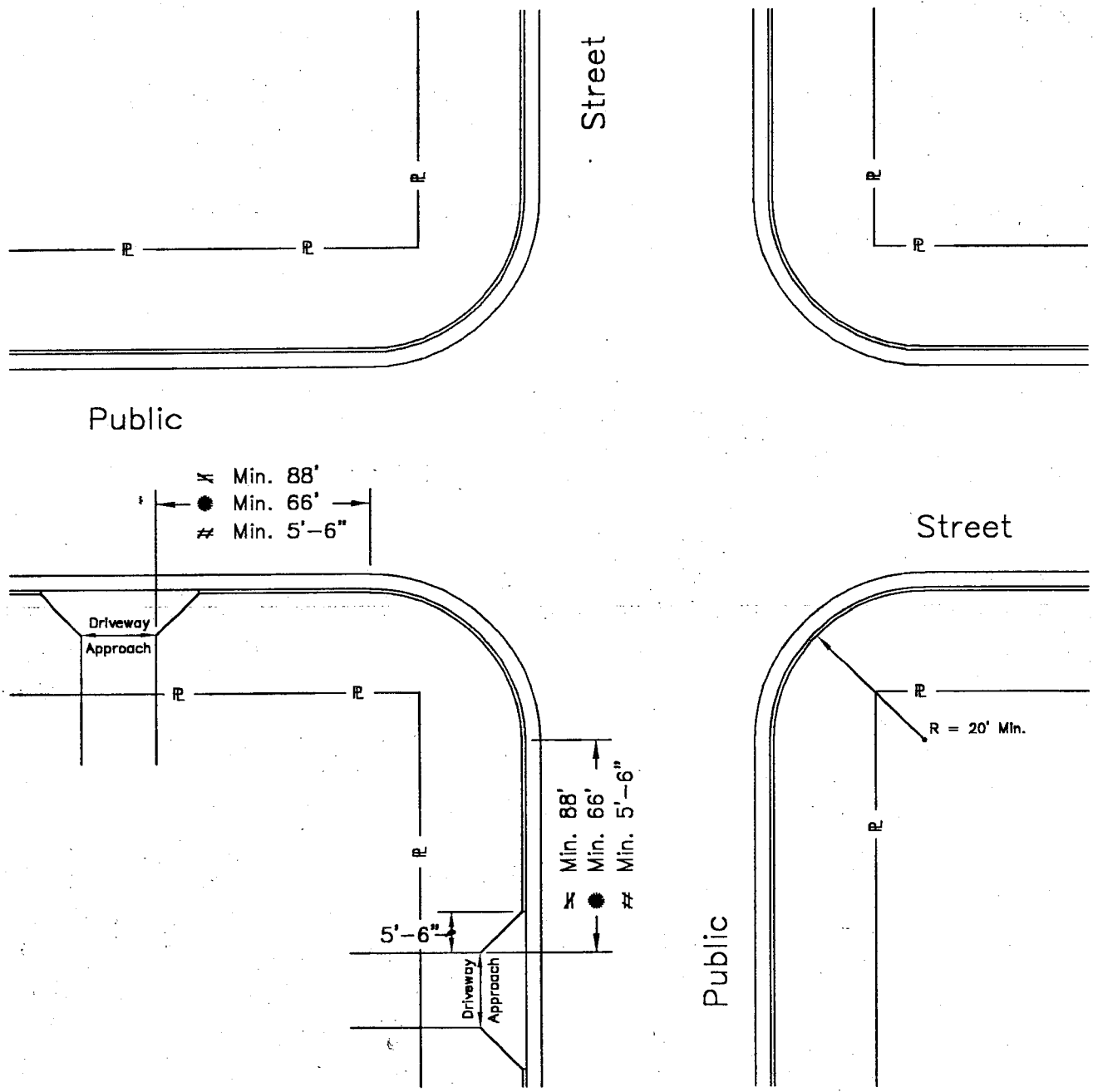
My street has been asphalt overlaid into the existing curb and gutter. Should the toe of my new curb and gutter match the top of the asphalt or the old curb and gutter toe? Match the top of the asphalt, this will give you much smoother ride into the drive.

Why should I wet my subgrade before I place my concrete? Wetting the subgrade before placement of concrete will keep the newly placed concrete from loosing the moisture it has into the dry subgrade. With the concrete moisture gone, it will weaken the concrete.

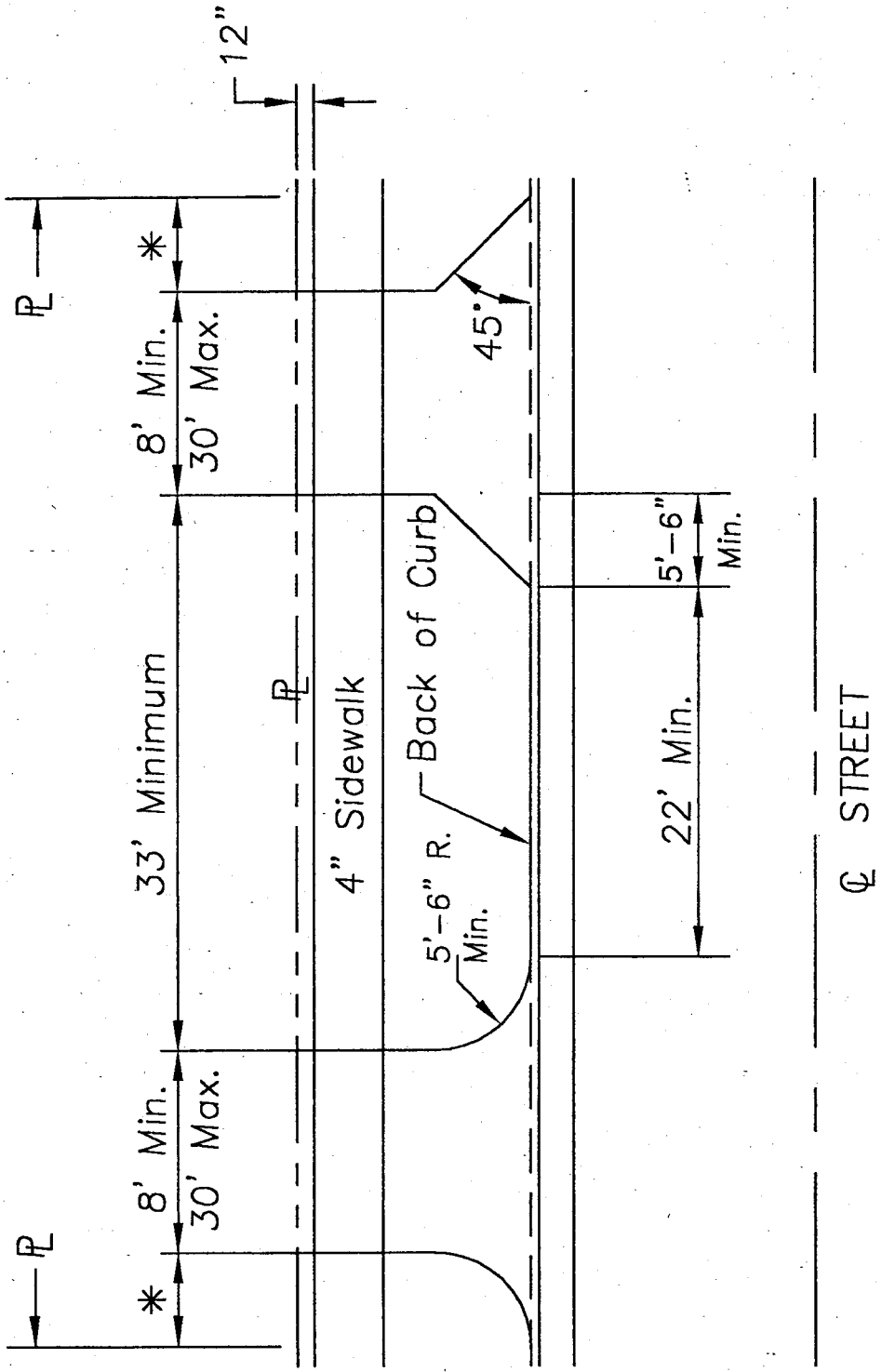
Should I provide barricades if I remove my curb and gutter, approach or sidewalk? Providing barricades will not only protect you against a law suit but will protect others from walking or driving into freshly placed concrete or the forms before placement.

Do I need to provide a sidewalk section through my drive if I live in a Cul-de-sac? No, due to the limited right-of-way in the Cul-de-sac's.

✳ Arterial Street Classification
✹ Collector Street Classification
Residential Street Classification



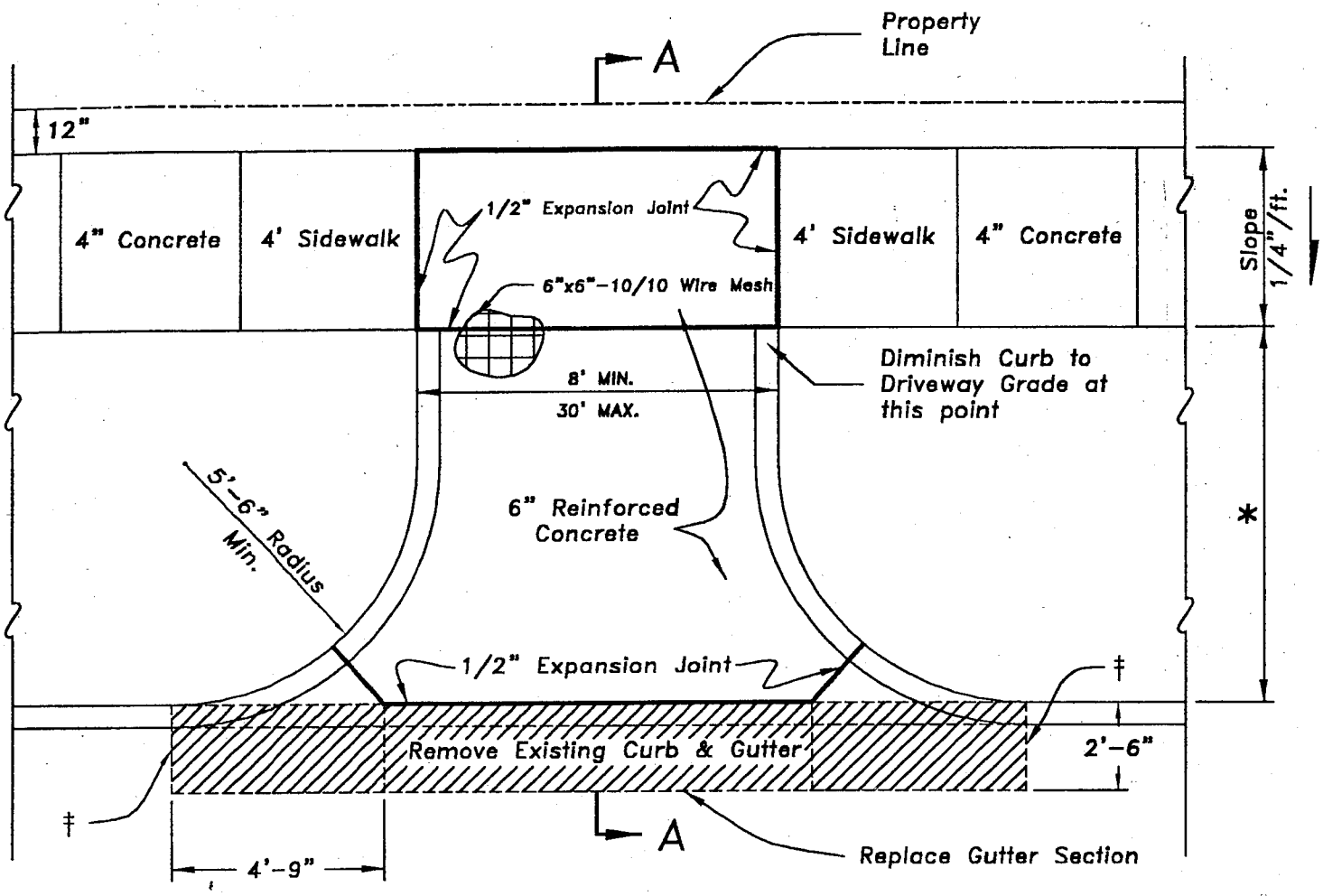
DRIVEWAY LOCATIONS NEAR INTERSECTIONS

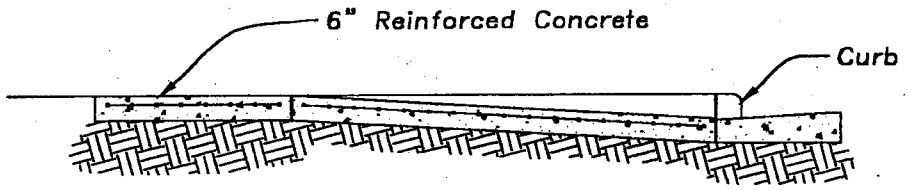


* 5.5' Minimum without written consent from adjacent property owner

NOTE: All driveway approaches shall be constructed in accordance with City of Salina Engineering Dept. Standards.

MULTIPLE DRIVEWAY APPROACHES



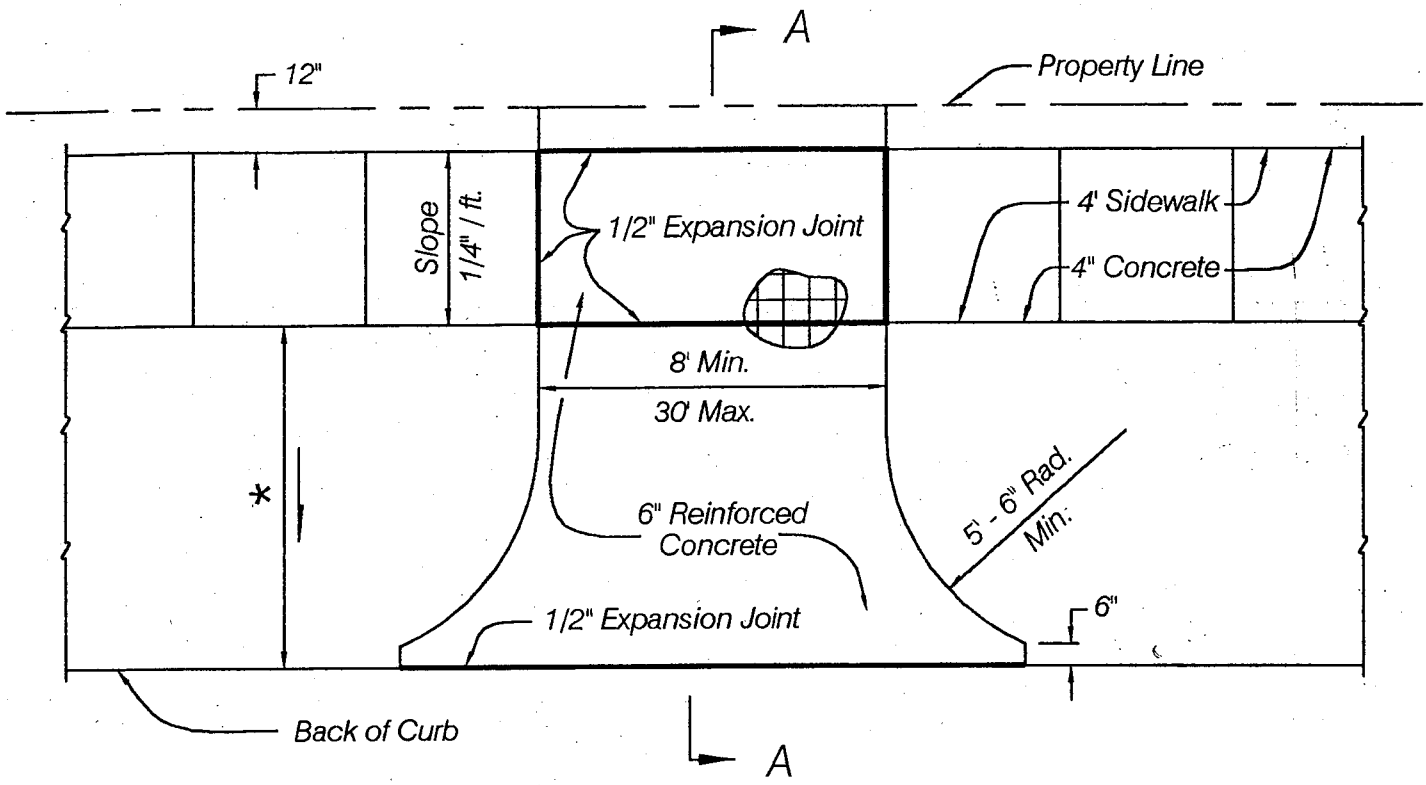


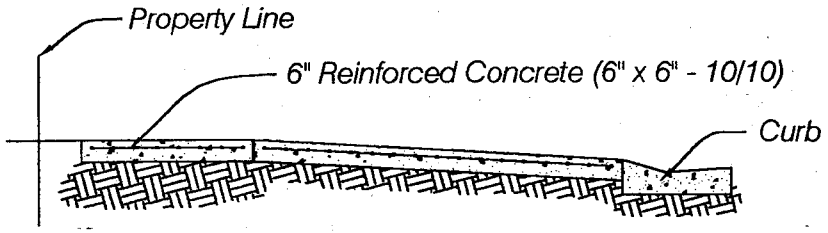
SECTION A–A

† Saw existing curb & gutter section or construct to an existing construction joint in the curb & gutter section.

* Slope of 1/4" per ft.(Min) is measured from top of curb to inside sidewalk line.

STANDARD DRIVEWAY FOR CURB & GUTTER

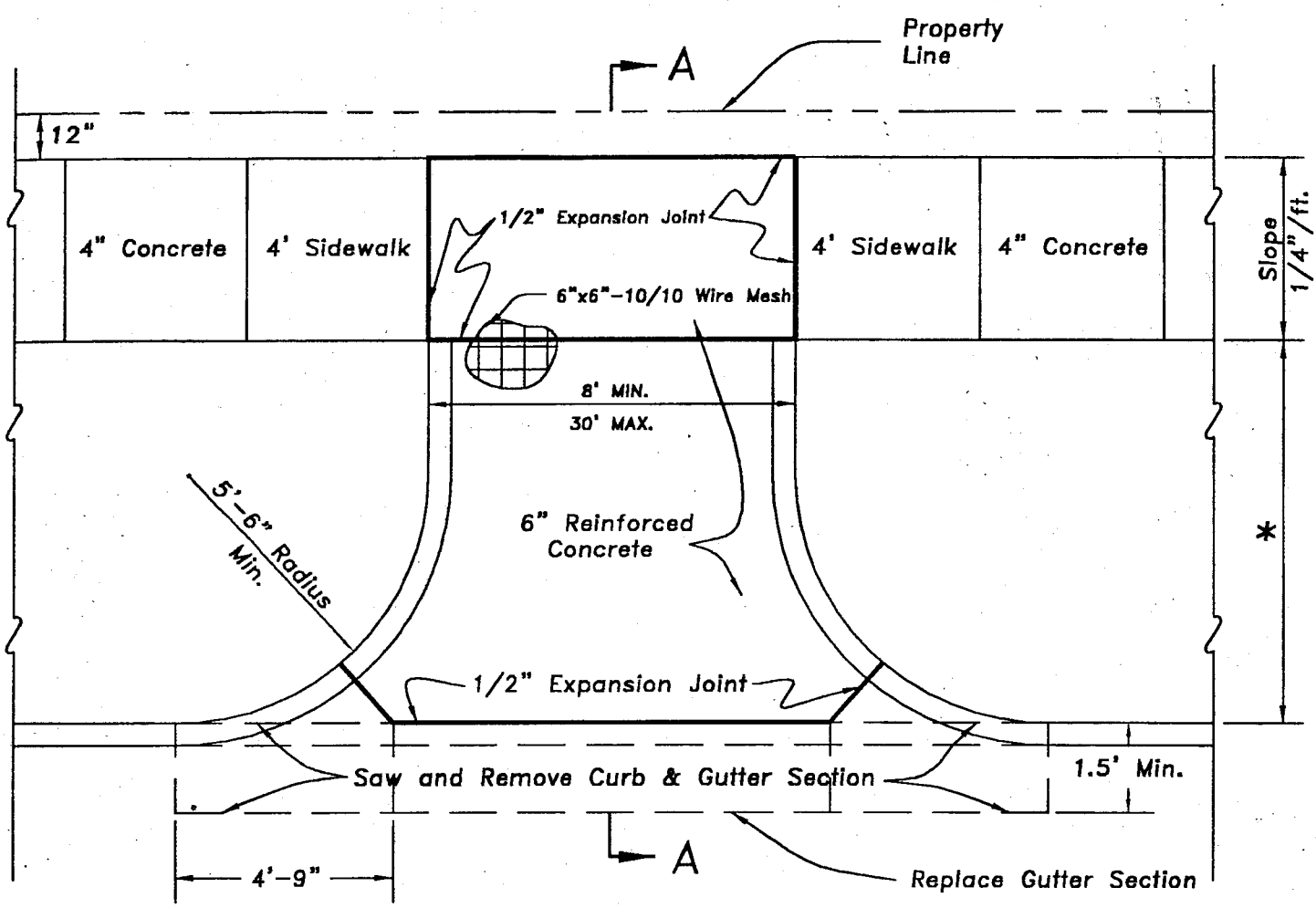


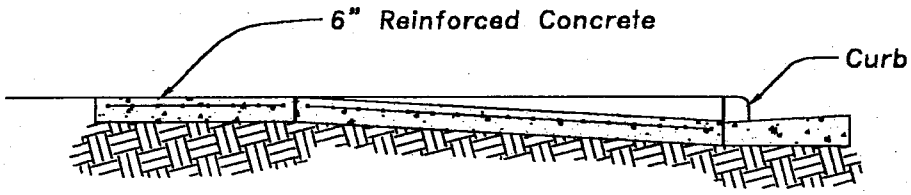


SECTION A - A

* Slope of 1/4" per ft.(Min.) is measured from top of curb to inside sidewalk line.

DRIVEWAY DETAILS FOR ROLLED CURB

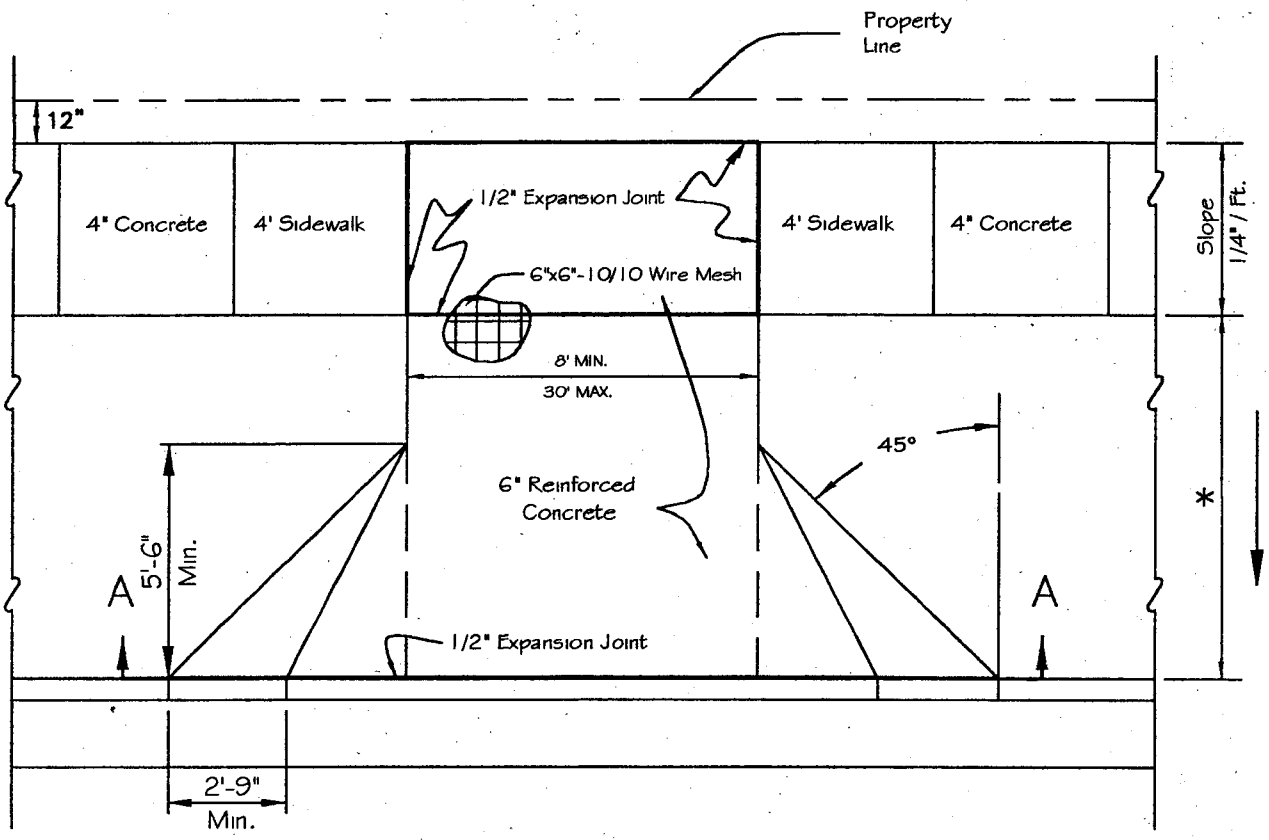


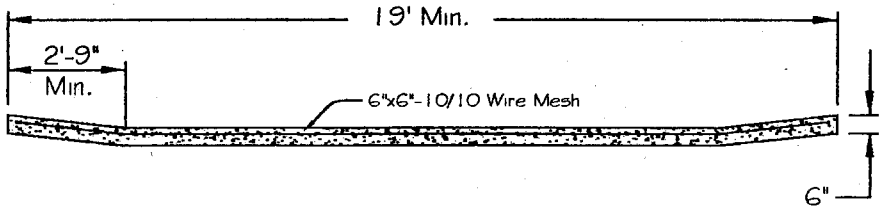


SECTION A–A

* Slope of 1/4" per ft.(Min) is measured from top of curb to inside sidewalk line.

STANDARD DRIVEWAY FOR MONOLITHIC CONC. PAVING

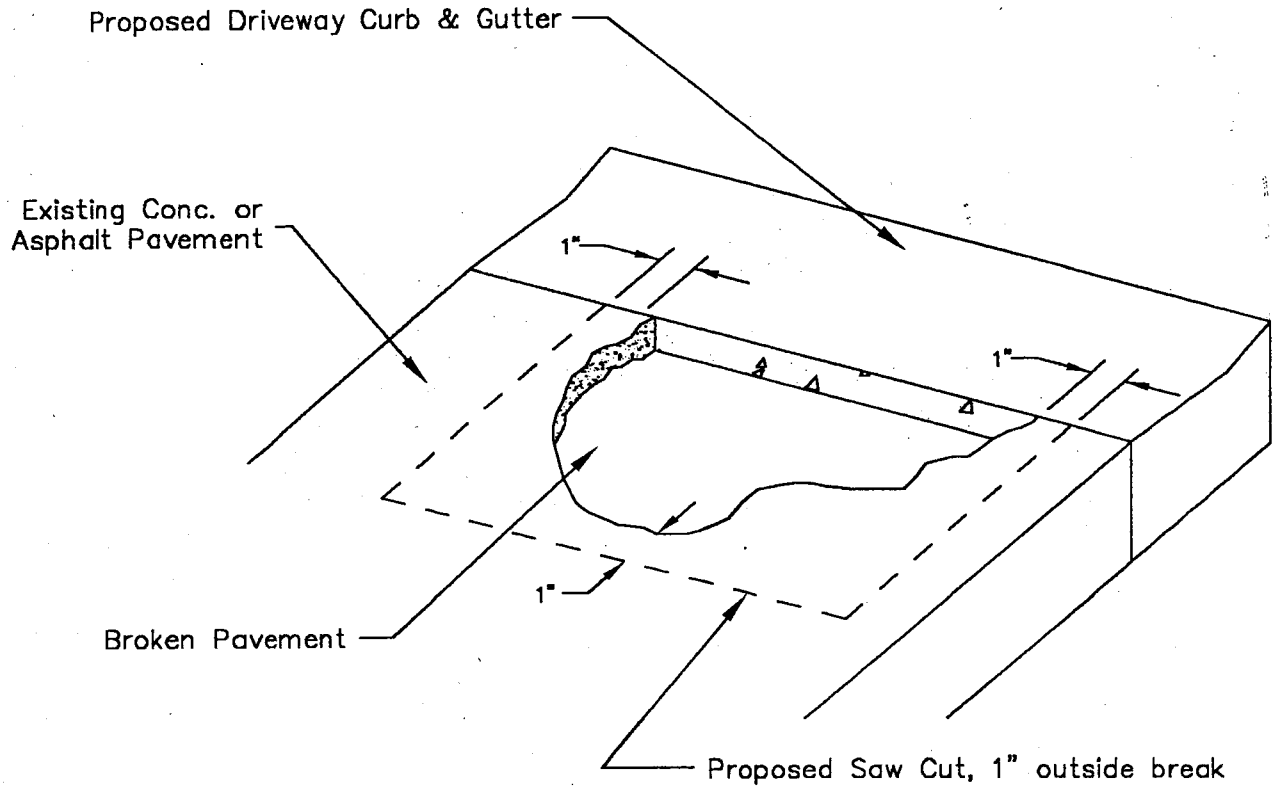




SECTION A-A

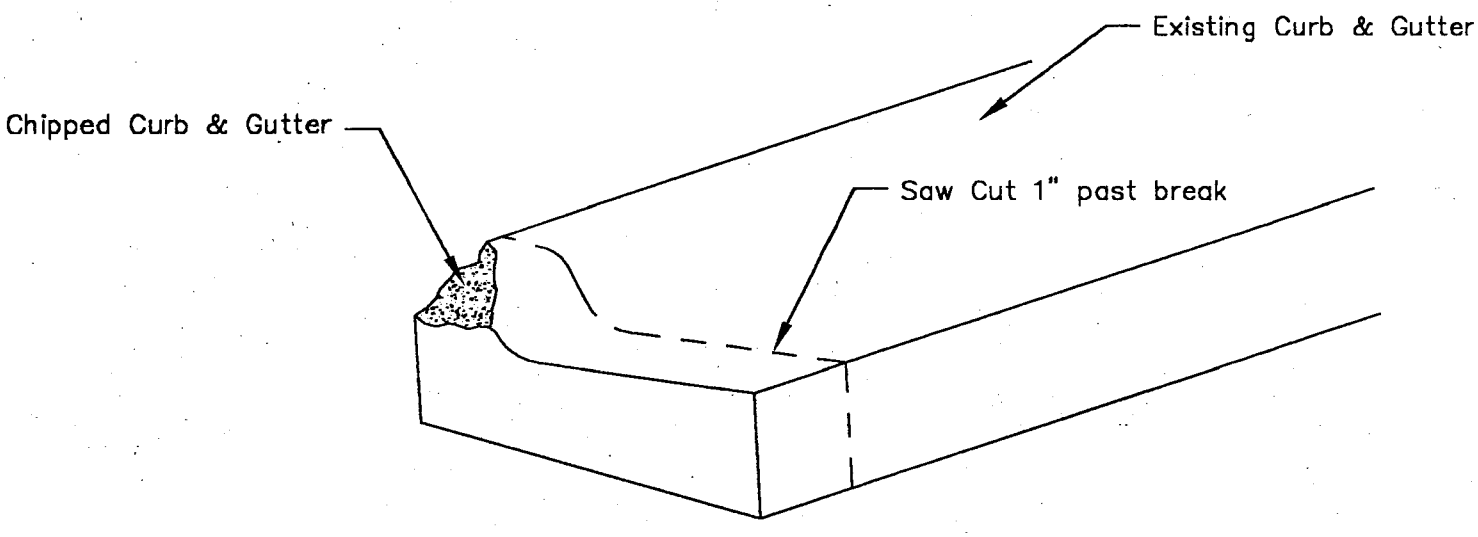
* Slope of 1/4" per ft.(Min) is measured from top of curb to inside sidewalk line.

STANDARD DRIVEWAY FOR CURB and GUTTER



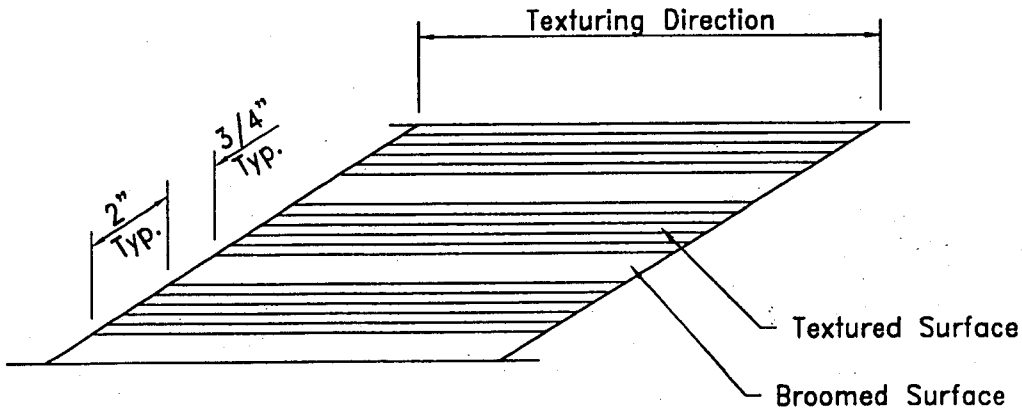
NOTE:
If damage to the edge of pavement occurs during removal of curb & gutter, the contractor will be directed to saw cut 3" to 4" in depth to provide adequte bridging and compaction.

Asphalt Repair

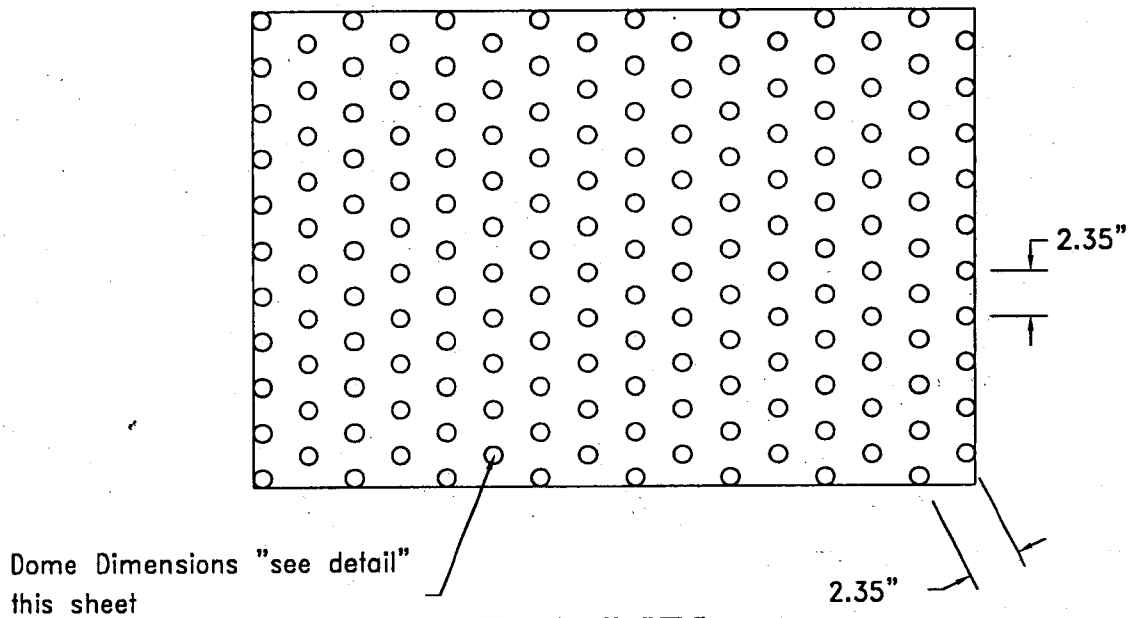


NOTE:
If damage to the edge of curb & gutter occurs during removal of curb & gutter or pavement, the contractor will be directed to saw cut through the entire depth to provide for a clean and proper joint.

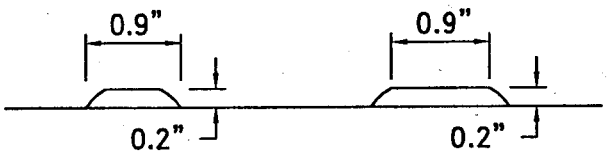
Curb & Gutter Repair



Detail "A"

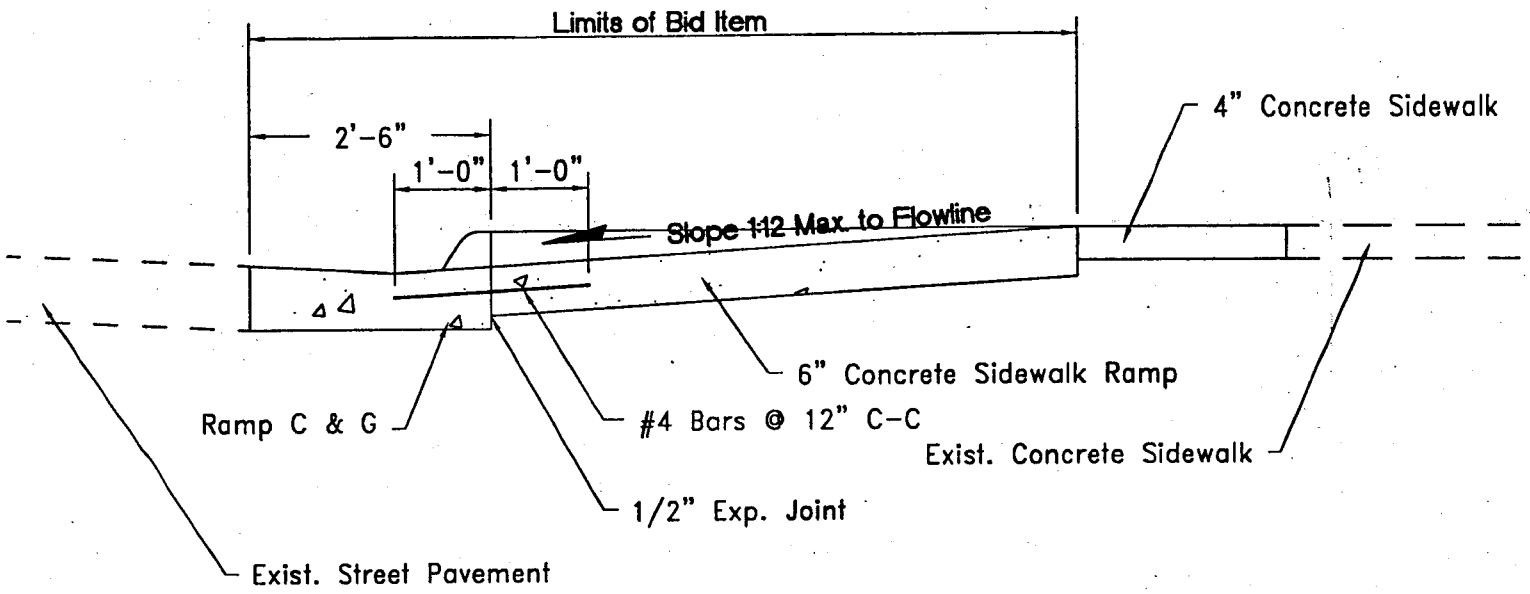


Detail "B"

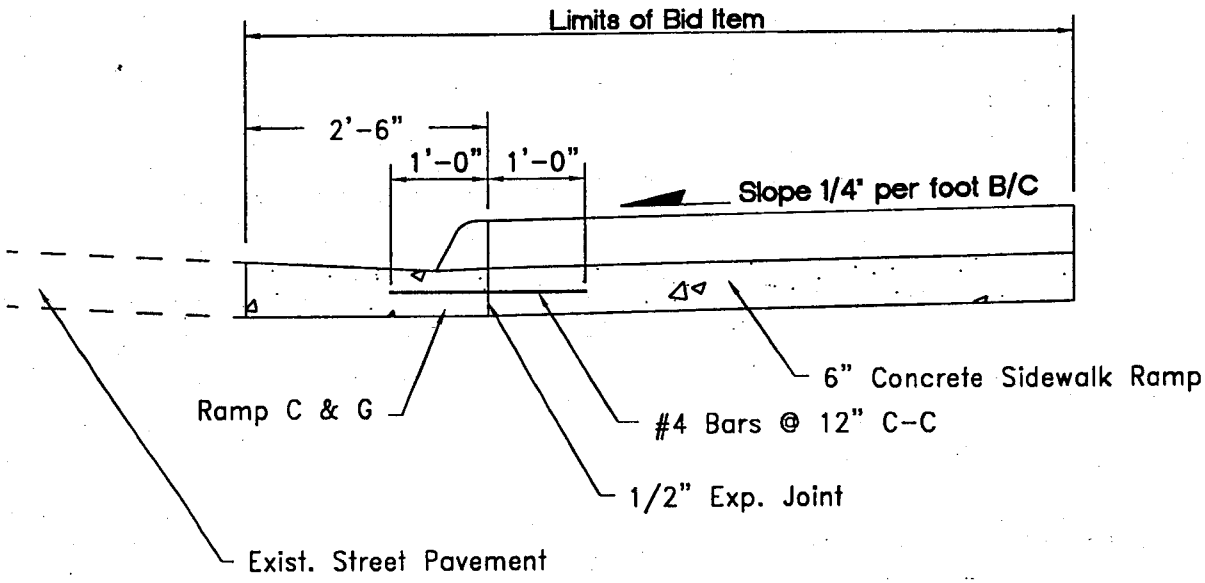


Dome Dimensions

Ramp Details

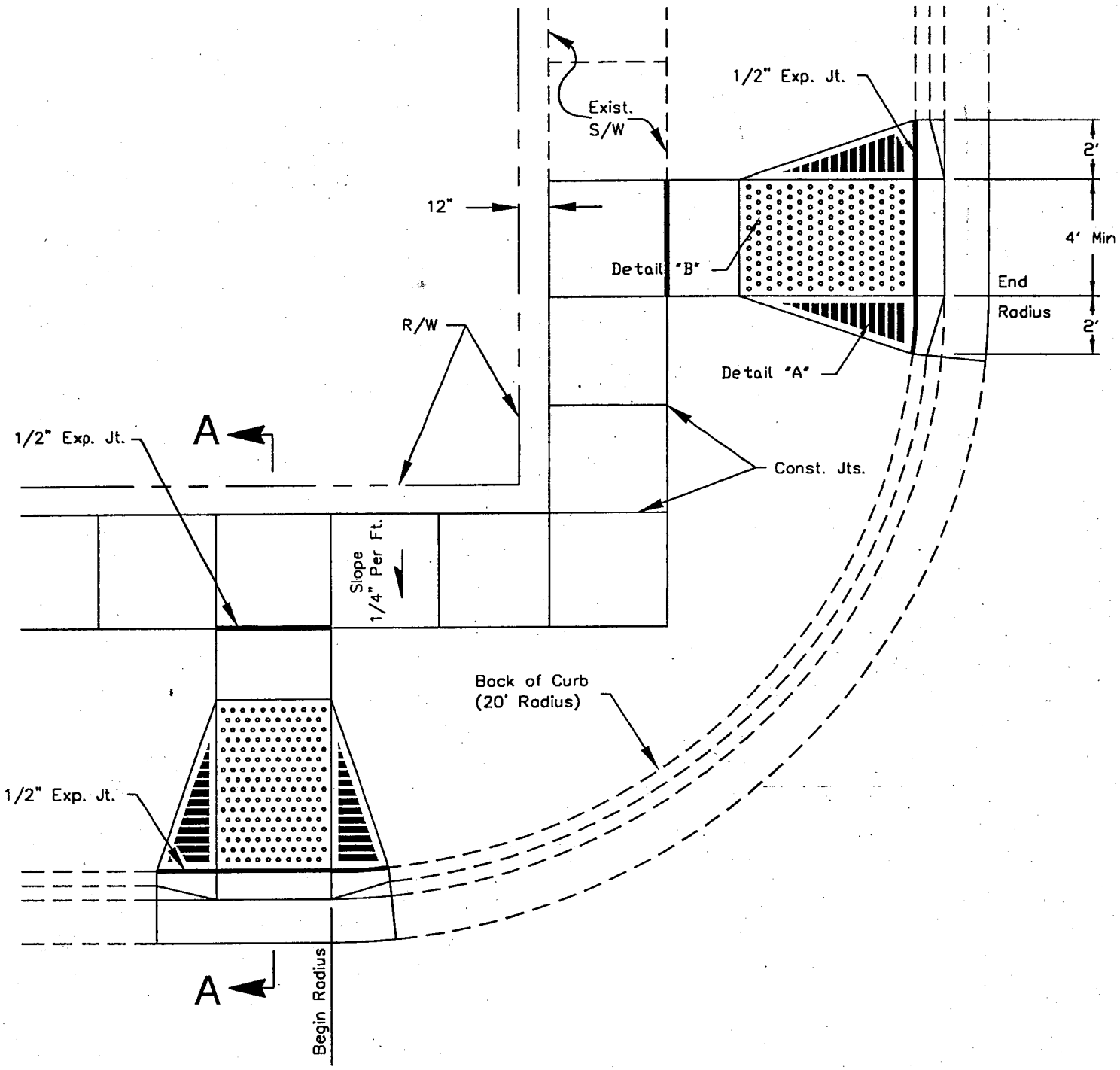


Section A-A

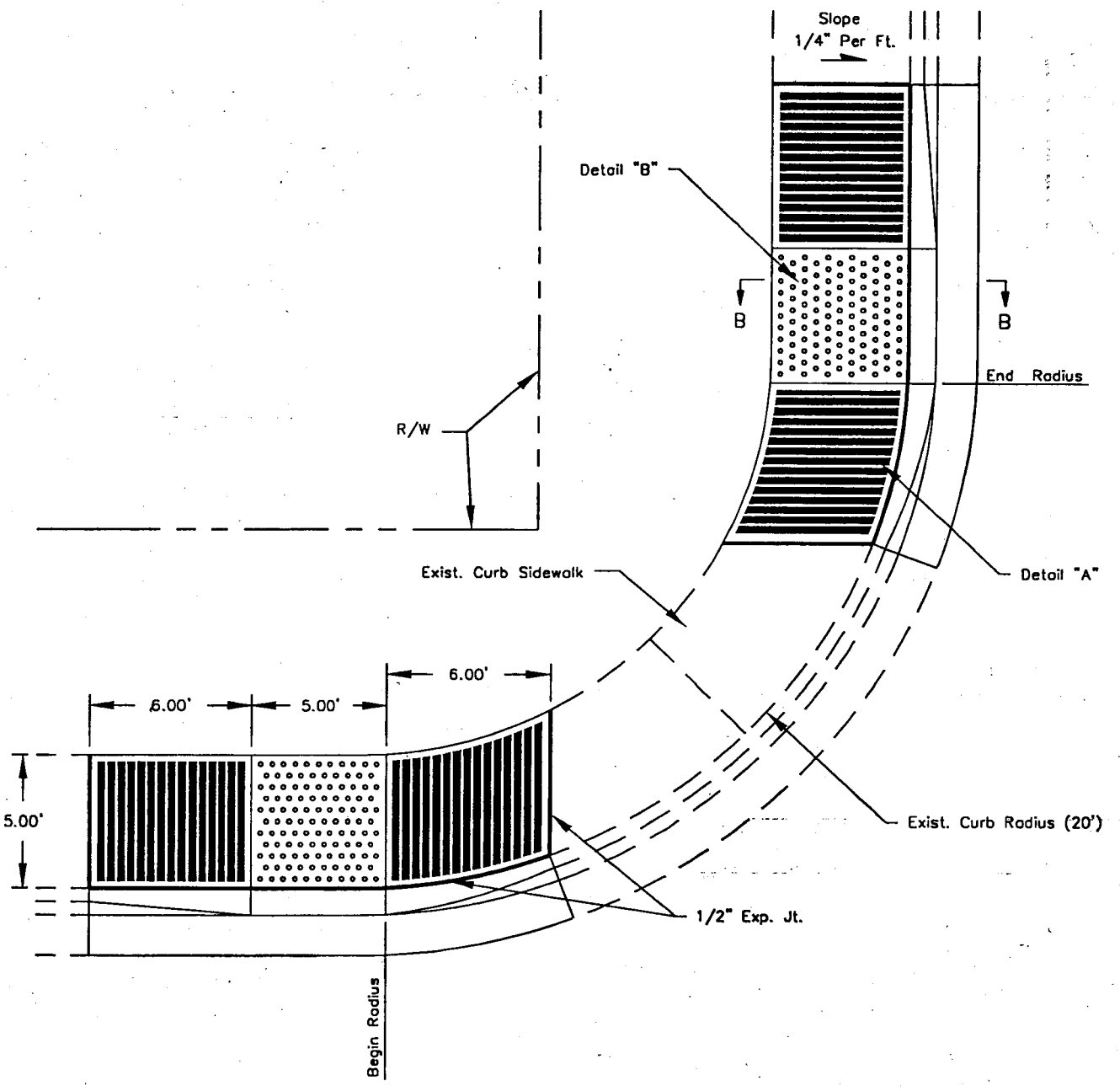


Section B-B

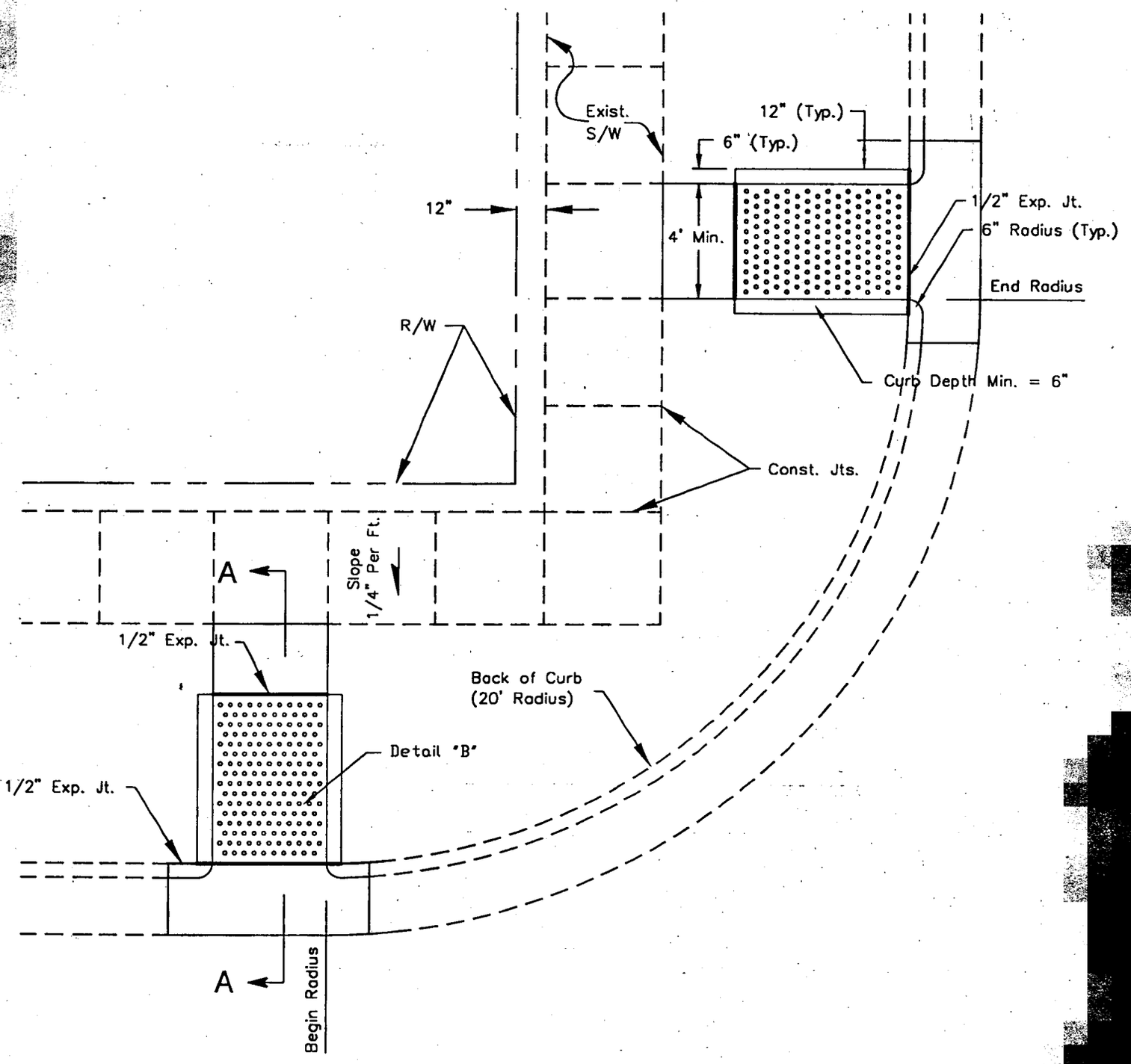
Ramp Sections



TYPE I HANDICAP RAMP LAYOUT



TYPE III HANDICAP RAMP



TYPE II HANDICAP RAMP LAYOUT

NOTIFICATION FORM

To Whom It May Concern:

You are hereby notified that I, the undersigned, am the owner of a tract of land located at _____, and I do hereby give permission to _____ to construct the wing/radius of his/her driveway approach located at _____ across the extension of our common property line on the public right-of-way.

Signed: _____

Date: _____